

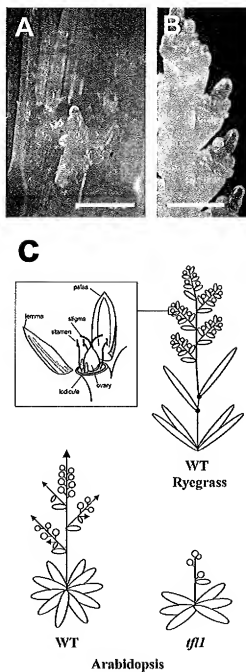
FIGURE 1

FIGURE 2

		GCC	-76
-75	CAAGCCACTTCAAAGCTTTGCTACTACCAGATAGACGATTCACCGTGCAATATAGAAATFACCTTGCCCTCCCAACC		-1
1	ATGCTAGGCTGTGGAGCCTCTTATGTGTGGTCGTGTCAATGGAGAACTTCGATCCATTTAAACCCATGTGTG		75
76	AAGATGGTAGCAACCTATAACTCAAAACAGCTGGTCTTCAATGGTCATGAGCTCTACCCATCAGCAGTTGTAATCT		150
151	AAACCAAGAGTAGAGGTTACGGGGGOTGACTTGCATCCCTATTACATTTGGTTATGACGGACCCAGATGTGCCA		225
226	GGACCAAGTGATCCGTATCTCGGGGAGCATCTTCACTGGATTGTCACTAATATACCTGGGACAAACAGATGCTTCA		300
301	TTTGGGGGGAGGTCATGAGCTATGAGAGCCAAAGCCCAACATTGGAAATCCACAGGTTTCATTITTTGTGCTCTC		375
375	AAGCAGAGCCGAAGGAGACTCTATCTGTCCCTTCCTTCACGGATCATTTCAACACCCGCCAGTTTCCGTGGAT		450
451	AATGATCTTGGCCCTCCCTGTGGCTGTCTTTACTTCANTTGTGAGAGAGACTGTGCGCAGGAGGCGCTGAAAA		525
526	TGAGATCTTGGCTATCCAGTTGTGCCAAATAAAGGCTTTTGGAGTTATGCACCTTCTTCTGAGTCAATGCT		600
601	CCCTTTACATTACTTCTCTGTCACCACTTCTTCTTACTACAGTTTTTCTCAGCCATCAATTAATCAAGT		675
675	GCATTTTGGAGATTGTATTAGATTATTTGTGAGCAGTGAGATCAGCAACCATGTGTATACATTAAGCCAGTACAT		750
751	TAGCAGGTCCATGTTATGTGTTTCATGTTGTGTGTAAGCAGTTATCACTAGAAGGAAGGTCAGGTAGACACCCCA		825
826	AAC TGCCAAAAAAGCTTTTATCTA		851

FIGURE 3A

-3520	cactagctaacgcgcgcgggtgtctctggaattacagggttaatacagactcaactataggmgctcgagagctctccacc	-3526
-3523	caagctgtgaactctctgttacttaaccacttccaaactcaggagactcaagatctgtgtggcgctctcttcttgcgt	-3529
-3450	aaqgaatccaagaagtgctcgggtacagcgttatagacacaaacagaaactcgacatcgactcagcgaaagcaagaagt	-3376
-3375	agttacttccaacgaaggtataaaaaactcaactaatgaagggggactgaatctgaagagataaactctctctca	-3301
-3300	ctctacaggtcgagatctgaagatctacttgacacacgggcagatggatggatgaagaaattatagggtcggagta	-3206
-3225	gaanagtlaaaglatgcgtggaatttgatgagatggtcgatagggtgtcgagatatacaaatgaaagacactctcca	-3151
-3150	atgattcataagaagaactgatgtgcatactacagagtggaattatattgtccttttaaaagagatgctacctctcc	-3076
-3075	gacctctctataaacaaatacactccttttctgatactttctctgataatttgtcttctctccgcaaaaagaat	-3001
-3000	aaatactatgaactctcttaatttaatttccccctatttctctgagactctcttaattctctctctatttctgtac	-2926
-2925	cgacgaactgctctctctctacttgcgcgcagggtgactgacatgacactcggcggtcttgtagatcaaaag	-2851
-2850	octgaattctatttctcactctgtctgcaatgctctcttcacagcaaatatgtagatatactgcagtgaagtc	-2776
-2775	actctctgcgatgattgcagcgttgcgaacgcggactcagcaatttctgttcgcgcgactcgcgcgaacactca	-2701
-2700	ccagccctcgagaagggtgtaaatccatcatctcttactctctcgaggaattatggaagacgaggaacgatgct	-2626
-2625	acttccaaactatgcgcgcccaacgactcccttgatctcagtcgcactatagatgagaagctcgaatggttgcta	-2551
-2550	gcggcttgtaagcgtcagctcagttacatttactatgctagaccctgattgttagctctgtgaggaagactcag	-2476
-2475	gtctacaatgatacctcgttcagctttttttttctttcttttttttttttttttttttttttttttttttttttt	-2401
-2400	ttgtgtagctttgtcactattgtctgtct	-2326
-2325	gcattgtgtctgagaaaaaatttacttaccctcttaggctatatctcttcccaacttggactccacaaagctc	-2251
-2250	atgcgcacacttgcctaagctgctgcgcgtggtgtgctgtcttttcccaactgactccatccactctagtcag	-2176
-2175	catcccaacaaaacaaagactaatgcgcgcctgtgtcttcaaatgataatctgattgtgtgctgctgaattctt	-2101
-2100	gcatactgagtcggggaattgaatgaactcgtgtgtgacgaatgaacaaaggaagactcttctgtgattgat	-2026
-2025	actcagtcagtcgaagttgtgtgtgagcagctgattgattccccctgttaaaaaaaggactctgaaaacattgtg	-1951
-1950	aggtgttaaglatctgttttttttttctgtcgtgcaaatggtagctatgctggaagttgtagtctactagtctgtgtg	-1876
-1875	ctactctgtccacacacacactgtagcactgcgaataatttataagaagctgcaacgcagtgattctatctaca	-1801
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-1650	acttctgttggaatagactatagatcttaactacagactaggtgtcgaagcaactaatggcactcagatggagcga	-1576
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-1275	cagatataatgtgtaatgcactcttggtatcgaaagtgttgaaagaatttatctctagcagaactgaactcaaca	-1201
-1200	acaacttccctttctcttaacagaaaaaagaatcgttcaaacggcgctgcttaaacacacacacataanaagc	-1126
-1125	aaactttgaggtggaagagcttccagctggagacgtgcgcgattttctgtccactagataaacactaaataa	-1051
-1050	gttaaaaacacagaaggttagaattctcgaaagaaactcaaaatttcttcgaagcaaacataaataagatgt	-976
-975	caaaaacgatacttgatagttaggaagaatcactcaaaagttgatttcttccgctgttttcttctgtccacaa	-901
-900	ggaactactctcctaatttcttgcgaacatcactatgattttttaaactgaagtaatttagatgaaagaac	-826
-825	cattgtctgttaatggtggttgaaattctcggactgctgattgatttctgtctgtgataactaaataattat	-751
-750	acacacacagcatgat.aatgtgcacaaactagcatcaaaactcgcacattctgcagaaactcaggaacaggga	-676
-675	ccagcaacttctgtggtttctcttaaacattataacattctcgacaacataattcttcagagacccactagcatga	-601
-600	aggtgtgttatgtctctcttaaaagataacatgttagttagtactatacattcttttggggactataaggtgt	-526
-525	gaaactcaactcgaatggagcttctccattcattgacgtataaaaaaacagatatttttaactatacaatacaaa	-451
-450	ttaaaacagactagagatatacaaatgaatacaaaactgtgcacaaatgattttatctgtagttagtatct	-376
-375	actgtttctgtgaaaaaattctctgcccctagagcttgaaagaagtgatgaattatactcaaacctccac	-301
-300	actgtgcaactgataagaagaacaaacagccttggttggtctctcgcaaaaagtgttgatgtcttctctgtg	-226
-225	ctttctagcttttcttccagcactcccaacaaacagaaacagacatactactcactctcactctctcttctga	-151
-150	gcttactcagaagacggtcttctgctctcaatgaatgagctcgtcgtactcagaaactcgtcagtaagaacc	-76
-75	CMAGCCATCTCAAGGCTTTGCTACTACAGATAGACATCCACGCGAATATGAGAAATCATTCGCTCGTCCACC	-1
1	ATGTCATGAGCTCGAGGACGCTTTATGTTTGGCTGCTGATGAGAAAGTCTGCAATCTTATACCAATCTGTG	75
76	AAAGTGGTAGCAACCTYTAATCTCAACCAAGCTGGCTCTCAATGGCTCATGAGCTCTACCCATCAGCAAGTGTATCT	150
151	AAACCAAGATCGTAGAGGTGGAGGGGGTACATTCGAGATCTTTATTCACATCTgtagaactgactcagctcgattct	225
226	ggaactccatatccaactcagatcttgatctgtgttttcttcttcagcgtgcgcaataattcaattttaa	300
301	ggtTATGACCCACCAATGCTTCCGACGACCAATGCTTCGCTATTCGCGGACGATCTCTGCACTGGT.aaactctctc	375
375	atocaaactttttctgtctgtctgtccataatgaagcaataataatataatgataatttttttggcaaaaataatc	450

FIGURE 3B

451	tagtataatgttgctaaggaatatagaagtacatcttctcttgcacatatatagacagagagactattttaaatg	525
526	caecttctaacgagagagtcaattaccaataccttttacacttacacaggaATTGTCAAGTAATATACCTGGGACAACAG	600
601	ATGCTTCATTGGTAGgtccctctctgagatttgaaattggtagtatattctatgttctgcaattttgaatgaataacca	675
675	ctgacccctttgaattgcagggggggaggtCATGAGCFATGAGAGGCCAAGGCCAACATTGGAATCCACAGGTTG	750
751	ATTTTTGTGCTCTTCAAGCAGAAAGCGAAGGCAGACTGTATCTGTGCCTTCTTCAGGGATCATTTCAACACCCGC	825
826	CAGTTTGTCTGGATAATGATCTTGGCTCCCTGTGGCTGCTGTTTACTTCAATTGTGAGAGAGAGACTGCTGCC	900
901	AGGAGGCGCTGAAATCGAGTCTTGGCTATCCAGTTGTGCCAATAAAGGCTTTTGGAGTTATGCACTCTCTT	975
976	TCTGAAGTCAATGCTCCTCTTCTACATTTACTTCTCTGAGACCAATTGCTTCITTACTACAGTTTGTGCTCAGGA	1050
1051	TCAATAAATCAAGTGCATTTTGGAGATTGTATTAGATTATATTGTAAAGCACTGAGATCAGCAACCATCTGTGTAA	1125
1126	CATAAGCCAGTACATTAGCAGGTCCATGTTTATGTTTCATGTTGTGTGAAGCAGTTATCACTAGAGGAAGGT	1200
1201	CAGGTAGACAAACCAACTGGCAAAAAAAGCTTTATCTACTgtatgyccttgcgcgcttgatgttccatgc	1275
1276	acctttctgacatgctgtctactgtatgccaccgcccactataaaglatgagatagaaataaaatggagat	1350
1351	ccasaatatccagatgattgcccactaaatgctaaatgtacatagtgggttttccacctattttgacttccat	1425
1426	gtccttaacacaaatcagaaaaacatccatttccatgacacattgacacactgcatattacacatctattcagatt	1500
1501	tggctgtaaacaccccttattttccgcatccatlaatatattagtagccctggacaggttaagcttttgag	1575
1576	cacagtaagtaacggatgaaattacaatatgatcctcgagcgcccat	1624

FIGURE 4

1	MSRSVEPLIVGRVIGEVLDPFNFCVFMVATYNSKLVFNHGHLYPVAVSKPRVEVQGGDLBSLFTLVMTDFDVP	75
76	GPSDPYLREHLHWIVSNIPGTTDASFGGEVMSYESPKPNIGLHREIFVLVFKQKRQTVSVSPFRDHFNTFRQFAVD	150
151	NDLGLPVAARVYFNQRETAARRR	173

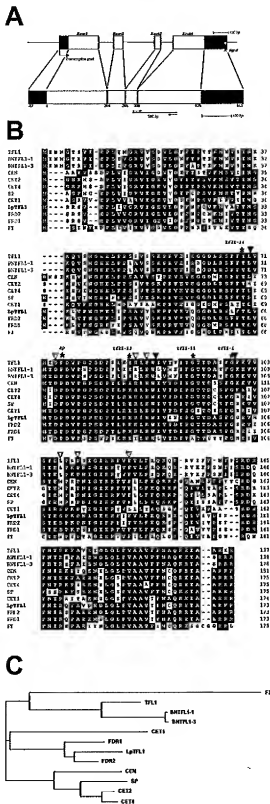
FIGURE 5

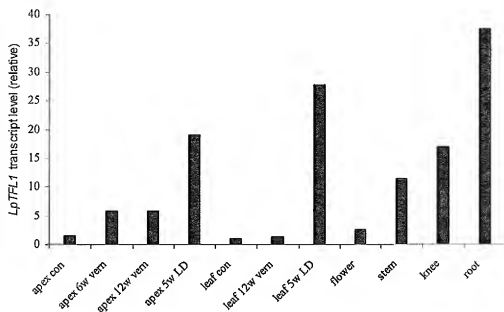
FIGURE 6

FIGURE 7

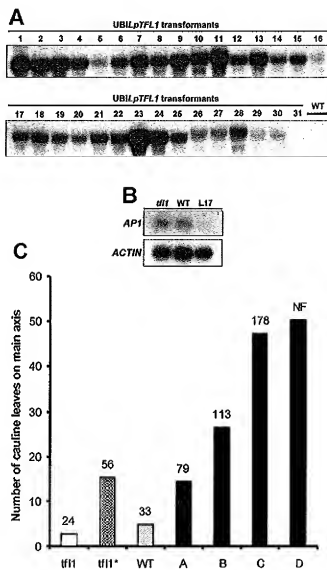


FIGURE 8

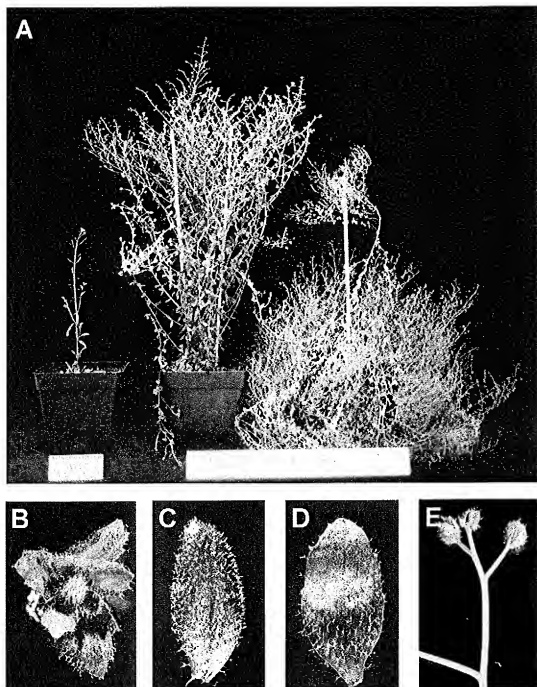


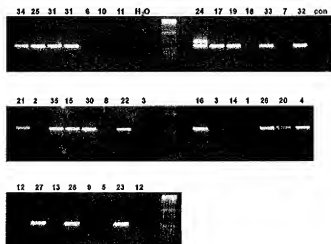
FIGURE 9

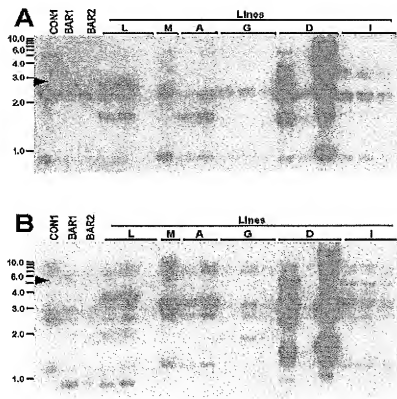
FIGURE 10

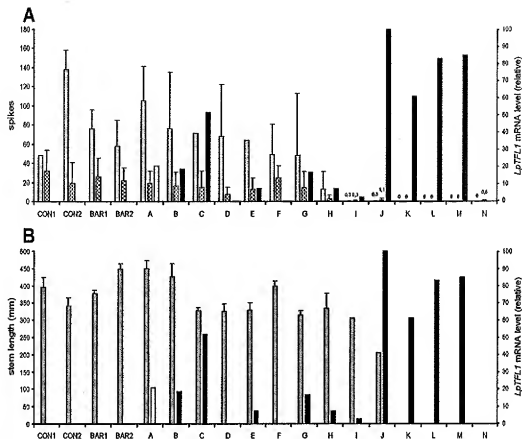
FIGURE 11**FIGURE 12**

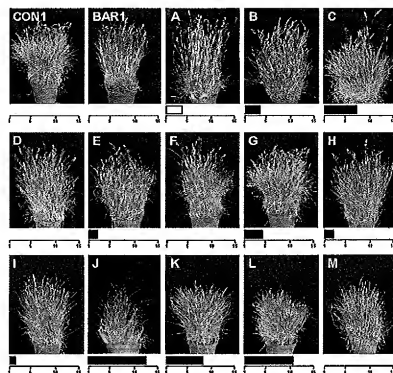
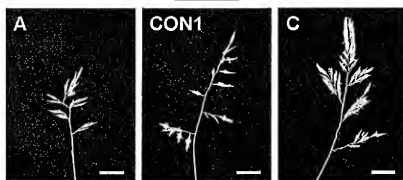
FIGURE 13**FIGURE 14**

FIGURE 15: *Transformation Efficiency and Floral Activity of the Transformants*

Cultivar	Line No.	Inflorescences	PCR	RT-PCR
F6	CON	8	-	-
F6	7	18	-	-
F6	8	11	-	-
F6	17	5,3	+	-
F6	18	13,3	+	-
F6	24	12	+	+
F6	29	0	+	+
F6	32	0	+	+
F6	33	4	+	+
F6	36	0	+	+
ACTION	2	1,8	-	-
ACTION	5	3	-	-
ACTION	9	0,3	-	-
ACTION	12	2	-	-
ACTION	13	0	-	-
ACTION	16	0	+	-
ACTION	19	7,3	+	-
ACTION	21	4	+	+
ACTION	22	0,3	+	+
ACTION	23	0	+	+
ACTION	25	0,3	+	+
ACTION	27	0	+	+
ACTION	28	4	+	+
ACTION	31	0	+	+
ACTION	34	0	+	+
ACTION	35	0	+	+
TELSTAR	1	10	-	-
TELSTAR	3	1	-	-
TELSTAR	4	11,6	-	-
TELSTAR	6	10,8	-	-
TELSTAR	10	5	-	-
TELSTAR	11	3,8	-	-
TELSTAR	14	0	-	-
TELSTAR	15	3,8	+	-
TELSTAR	20	3,5	+	-
TELSTAR	26	0	+	+
TELSTAR	30	3,7	+	+

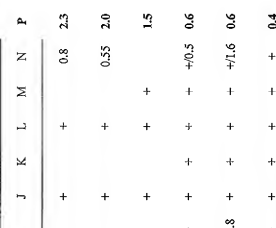


Figure 16: Transgene integration analysis by PCR using different primer combinations

Promoter	short	TATA box	short	short	ok	short TATA box
Linco	ok	ok	ok	ok	ok	ok
<i>LpTFL1</i> cDNA	truncated	ok	ok	ok	ok	ok + extra

plus indicates that the observed fragment had the expected size, whereas numbers indicate that the fragment size deviated from the expected size (numbers in bold).